ABSTRACT

Combinations of individual colorant compounds that provide effective toning (or bluing) to combat yellowing within polyester articles (such as bottles, containers, and the like) are provided. Such a novel toner combination permits effective neutralization of yellowness while also providing highly desirable low haze and increased brightness due to a sharp absorption peak within the needed range of wavelengths (e.g., from about 565 to 590 nm) and a narrow half-height band width. Furthermore, such a combination of compounds is preferably liquid in nature and may thus be incorporated within an added ultraviolet absorber solution or shelf-stable dispersion to facilitate addition within target polyesters at various stages of production. The particular UV absorbers desired as additives within target polyesters also tend to exhibit certain yellowing effects that require attention as well. The inventive combination bluing agent thus also accords effective neutralization of such UV absorber yellowing as well. Methods of production and liquid UV absorber/individual bluing agent formulations are also encompassed within this invention.